

# Confirm®

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March 16, 2021

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# Microsoft App-V

#### Overview

This document explains the steps to deploy Confirm Client as Microsoft App-V Package.

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## Microsoft App-V

#### Overview

Microsoft Application Virtualization (App-V) is an application virtualization solution from Microsoft. It helps businesses to provide their end users with access to virtually any application, anywhere without installing applications directly on their computers. Here we will follow these three basic steps for the virtualization of Confirm Client application.

- 1. Install the Microsoft App-V Sequencer on a computer.
- 2. Use the Microsoft App-V sequencer to create virtual application package of Confirm Client.
- 3. Deploy the virtual package on Microsoft App-V Client.

This document covers setting up the Sequencer workstation, walkthrough to create virtual application for Confirm Client, and walkthrough to deploy the package, using Microsoft App-V.

#### **App-V Package Creation**

#### **App-V Sequencer**

The App-V Sequencer is a component of the App-V suite used to convert standard applications into virtual packages for deployment to computers running the App-V Client. It analyses the application for the resources that it requires and creates the system guard runtime environment that it will require. Most importantly, the sequencer translates file and registry references into user, machine, and operating system neutral references.

#### Prerequisites for App-V Sequencer Workstation

Follow the link for information. http://technet.microsoft.com/en-US/library/jj713458.aspx

#### **Prerequisites for Confirm Client**

- Visual C++ 2013 x86 / x64
- Visual C++ 2015 x86 / x64
- MapXtreme Redistributable

#### **Install App-V Sequencer**

- Pre Windows 10 http://technet.microsoft.com/en-us/library/jj713464.aspx
- Windows 10 https://docs.microsoft.com/en-us/windows/application-management/app-v/appvgetting-started

#### Package Creation Walkthrough

This section outlines the sequencing process of Confirm Client application.

#### Start Microsoft App-V Sequencer

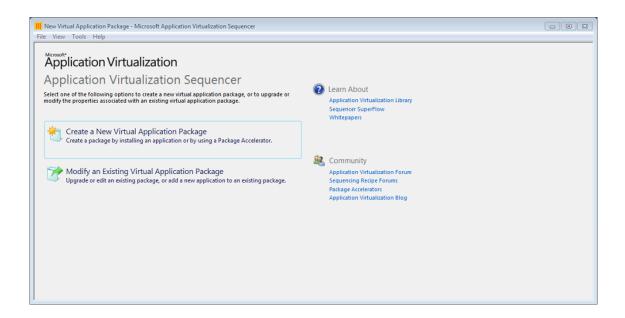
Launch 'Microsoft Application Virtualization Sequencer' from 'Start' menu.

#### | Microsoft App-V |

Microsoft Application Virtualization Sequencer	
	PBUser
	Documents
	Pictures
	Music
	Computer
	Control Panel
	Devices and Printers
	Default Programs
	Help and Support
All Programs	
Search programs and files	Shut down 🕨

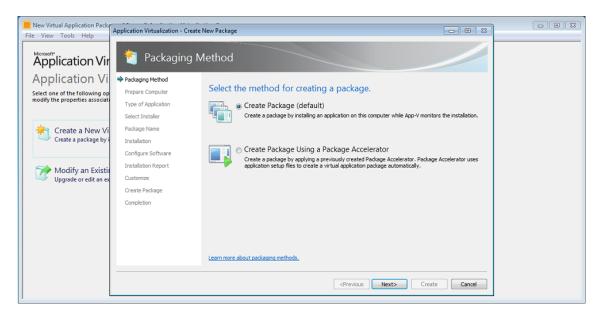
#### Welcome Screen

Select 'Create a New Virtual Application Package' to create a new virtual application package.



#### **Packaging Method**

Select 'Create Package' option to create a new package.



#### **Prepare Computer**

This process examines and prompts for any running processes that might prevent successful sequencing.

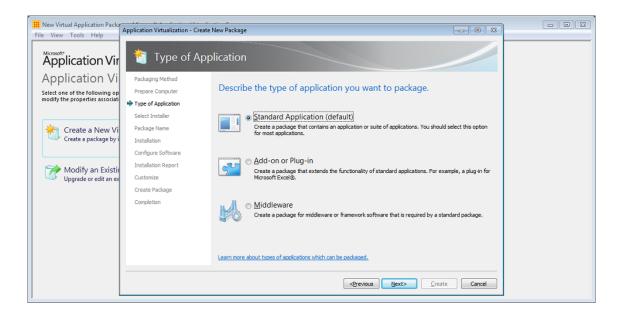
How Virtual Application Packa File View Tools Help	Application Virtualization - Create New Package			
Application Vir	襸 Prepare Computer			
Application Vi	Packaging Method			
Select one of the following op modify the properties associate	Type of Application	e computer for creating a virtual p		
	Description	at may corrupt the package or add extraneous data (1)	Resolution	
Create a New Vi Create a package by i		a may comprise package or add exit areous data (1) applications are running.	Stop these before continuing.	
	Configure Software			
Modify an Existin Upgrade or edit an ex	Installation Report Customize			
	Create Package			
	Completion			
	Refresh			
	Learn more abou	t preparing your computer.		
		< <u>Previous</u>	<u>Next&gt;</u> <u>Create</u> Cancel	

Stop all the running processes to continue creating the package. Click 'Refresh' button.

III New Virtual Application Packar File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	襸 Prepare Cor	nputer	
Application Vi	Packaging Method		
Select one of the following op	Prepare Computer	Prepare the computer for creating a virtual package.	
modify the properties associate	Type of Application	Your system is ready to create a virtual package, no issues were detected. Click Next to continue.	
	Select Installer		
🔶 Create a New Vi	Package Name		
Create a package by i	Installation		
	Configure Software		
Modify an Existin	Installation Report		
Upgrade or edit an ex	Customize		
	Create Package		
	Completion		
		Refresh	
		Learn more about preparing your computer.	
		<pre></pre>	
l I			1

#### **Type of Application**

Select 'Standard Application' to continue creating the package.



#### **Select Installer**

Select 'Confirm MapXtreme' installer file to have the sequencing wizard automatically launch the installer wizard.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	襸 Select Insta	ller	
Application Vi Select one of the following op modify the properties associat	Packaging Method Prepare Computer Type of Application	Select Installer	
	Select Installer	Select the installer for the application.	
Create a New Vi Create a package by Modify an Existi Upgrade or edit an ex	Package Name Installation Configure Software Installation Report Customize Create Package Completion	Et Users (PE-User (Packtop) Mapktreme 7.11 ConfirmMapXtreme 7.18 edist.md)         Browse           C) Perform a custom installation.         I choose not to select an installer in this step. I will manually select and run all files during installation.	
		Learn more about installation options.	
		<previous next=""> Create Cancel</previous>	

#### Package Name

Specify unique name for the package under 'Virtual Application Package Name'. This name is independent of the 'Primary Virtual Application Directory'. This name will identify the virtual application package in the App-V Management Console. Save the package in a directory named for the package name is recommended.

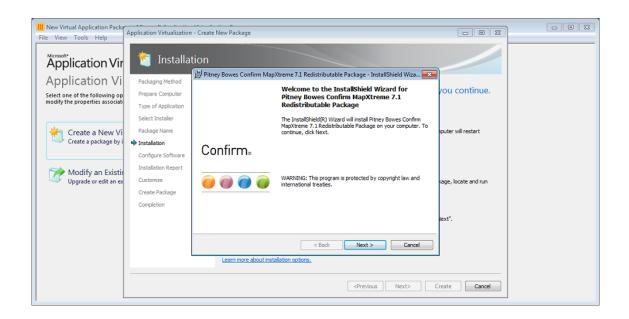
Specify directory under 'Primary Virtual Application Directory' that will contain all files for the sequence. It is recommended to define the application's default installation directory (example C:\Program Files\Confirm).

I New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	襸 Package Na	me	
Application Vi Select one of the following op modify the properties associate	Packaging Method Prepare Computer Type of Application	Package Name Virtual Application Package Name Confirm	
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software	Commit	
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package	Important: You should use the Primary Virtual Application Directory location specified on this page as the installation directory when installing the application to be sequenced.	
	Completion	Installation will begin when you click "Next" and you will not be able to return to this page.	
		Learn more about the Primary Virtual Application Directory.	
		<previous next=""> Create Cancel</previous>	

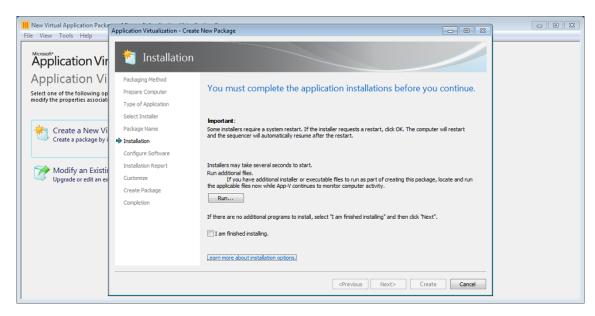
#### Installation

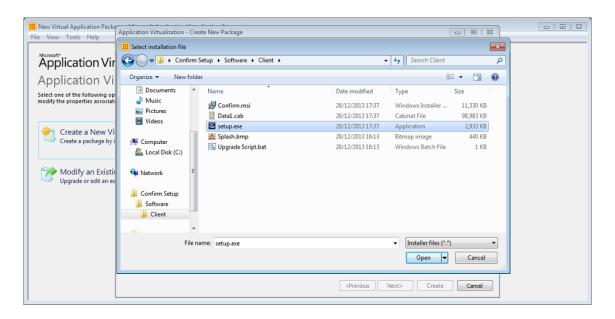
Install MapXtreme using the steps documented when locally installing it.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	installation		
Application Vi Select one of the following op modify the properties associate	Packaging Method Prepare Computer	Please wait. The installer will start momentarily	
	Type of Application Select Installer Package Name		
Create a New Vi Create a package by i	Installation     Configure Software		
Modify an Existin Upgrade or edit an ex	Installation Report Customize		
	Create Package Completion		
		(earn more about installation options)	
		<previous next=""> Create Cancel</previous>	



Run additional Installers.Click 'Run...' button after the completion of MapXtreme installer; select the next (Confirm Client) installation program. Install 'Confirm Client' using the steps documented when locally installing it.





III New Virtual Application Packar File View Tools Help	Application Virtualization	n - Create New Package			
Application Vir	촵 Installa	tion			
Application Vi	Packaging Method Prepare Computer	岗 Confirm - InstallShield Wizz	Welcome to the InstallShield Wizard for Confirm Version 14.2.1	vou continue.	
modify the properties associate	Type of Application Select Installer		The InstallShield(R) Wizard will install Confirm on your		
Create a New Vi Create a package by i	Package Name	Confirm。	computer. To continue, dick Next.	iputer will restart	
Modify an Existi	Configure Software Installation Report		WARNING: This program is protected by copyright law and		
Upgrade or edit an ex	Customize Create Package Completion		international treaties.	kage, locate and run	
	compiction			iext".	
			< Back Next > Cancel	-	
		Learn more about inst			
			<previous next=""></previous>	Create Cancel	

Select 'I am finished installing' tick box once 'Confirm Client' installation is complete and then click 'Next'.

Hew Virtual Applic File View Tools	Application Virtualization - Create	New Package	
Applicati	installation		
Applicati	Prepare Computer	You must complete the application installations before you continue.	
Create a p	Select Installer Package Name Installation Configure Software	Important : Some installers require a system restart. If the installer requests a restart, click OK. The computer will restart and the sequencer will automatically resume after the restart.	
Modify Upgrade o	Installation Report	Installers may take several seconds to start. Run additional files. If you have additional installer or executable files to run as part of creating this package, locate and run the applicable files now while App-V continues to monitor computer activity. <u>Bun</u> If there are no additional programs to install, select "I am finished installing" and then click "Next". <b>V</b> [ am finished installing. Learn more about installation options,	
		<pre></pre>	

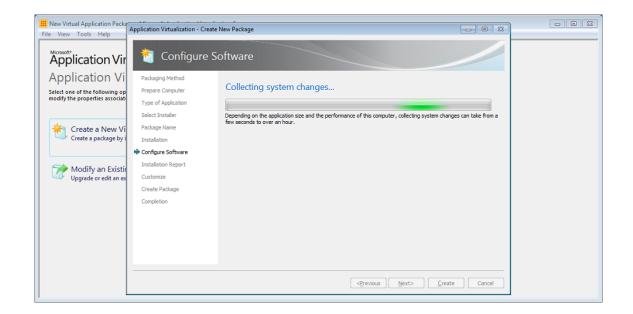
#### **Configure Software – Confirm Client**

At this stage, execute the Confirm Client application(s) at least once by selecting the application and clicking the "Run Selected" or "Run All" buttons (multiple executions are recommended to ensure any second-run tasks are executed). It is during this execution the following can be configured. Once both configurations are done, exit the application and continue with next steps of sequencing

- dbconfig.cfg file : Configure dbconfig.cfg from Database Setting screen.
- Registry entries: On dbconfig.cfg file is configured, login to all the flavors of Confirm once, automatically creates/configures the registry entries behind the scene.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package			
Application Vir	촵 Configure S	oftware			
Application Vi Select one of the following op modify the properties associat	Packaging Method Prepare Computer Type of Application	Run each program to mana	age first use tasks.		
Create a New Vi Create a package by i	Select Installer Package Name Installation		r required application configuration tasks, such as o sabling automatic updates. In addition, changes m rtual application package.		
Modify an Existin Upgrade or edit an ex	Configure Software Installation Report Customize Create Package Completion	Name Confrm Arboriculture Confrm Bridges And Structures Confrm Engineering Confrm Engineering Confrm Environmental Confrm Highways Confrm Lighways Confrm Queeted Run Selected Run All Learn more about managing first-use tasks.	Command Line "C: Program Files Pitney Bowe "C: Program Files Pitney Bowe	s\Confirm\Client\co. s\Confirm\Client\co. s\Confirm\Client\co. s\Confirm\Client\co.	
			< <u>Previous</u> <u>Next&gt;</u> <u>Crea</u>	ate Cancel	

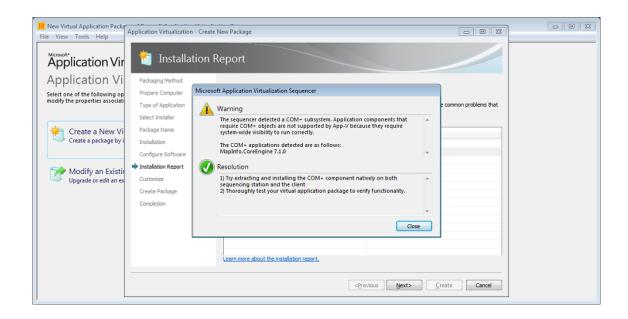
How Virtual Application Packa File View Tools Help	Application Virtualization - Create New Package	
Application Vi Select one of the following op modify the properties associate	Prepare Computer Type of Application Select Installer United Select Installer	
Create a package by i Create a package by i Modify an Existin Upgrade or edit an ex	Instalation  Configure Software Instalation Report Password	
	Learn more about managing first-use tasks.	



#### **Installation Report**

The Microsoft App-V Sequencer lists the issues discovered during sequencing in the Installation Report page. It also displays the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package			
Application Vir	襸 Create Pack	age			
Application Vi Select one of the following op modify the properties associat	Packaging Method	Package completed.			
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software	Description  Warnings (3)  COM + subsystem detected.  Printer driver detected.  Complex excluded from package.	Resolution Verify package functionality. Install driver on client. Verify package functionality.		
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package Completion				
			<previous next=""> Close</previous>	Cancel	



We may ignore these three warnings and continue creating the package.

#### Customize

Select 'Stop now' once the application configuration is complete.

III New Virtual Application Packar File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	촵 Customize		
Application Vi Select one of the following op modify the properties associat	Packaging Method Prepare Computer Type of Application	Create a basic package or customize further.	
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software	Stop now. Create a basic virtual application package (default).     Customize. Further configure the virtual application package.     - Optimize this package for deployment over slow or unreliable network.     - Restrict operating systems that can run this package.	
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package Completion		
		Learn more about basic packages and additional customizations	
		<previous next=""> Create Cancel</previous>	-

#### **Create Package**

Specify a save location and utilize the package name as the directory (Example: \Desktop\Confirm).

How Virtual Application Packar File View Tools Help	Application Virtualization - Create New Package	
Application Vir	* Create Package	
Application Vi Select one of the following op modify the properties associat Create a New Vi Create a package by i	Packaging Method       Prepare Computer     Document the package and select output options.       Type of Application     © Continue to modify package without saving using the package editor.       Select Installer     @ Save the package now.       Package Name     Description       Installation     Confirm Client       Configure Software     Installation Report	
	Create Package     Completion     Save Location     C:\Users\PBUser\Desktop\Confirm.appv     Browse      C:\Users\PBUser\Desktop\Confirm.appv     Create     Cancel	

#### **Create Package – Completion Report**

The Microsoft App-V Sequencer lists the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package		
Application Vir		Report		
Select one of the following op modify the properties associate	Packaging Method Prepare Computer Type of Application Select Installer	Review the installation report. The settings and installation report provides packaging proce may occur.	ess results and can help diagnose common problems that	
Create a New Vi Create a package by i	Package Name Installation Configure Software Installation Report Customize Create Package Completion	Description     Issues that may affect full package functionality (3)     COM+ subsystem detected.     Printer driver detected.     Priles excluded from package.	Resolution Verify package functionality. Install driver on client. Verify package functionality.	
		Learn more about the installation report.	vious <u>Next&gt;</u> <u>Create</u> Cance	

#### **App-V Package Files**

Following files are created when sequencer is used to create a package of Confirm Client application.

.msi file	This Windows Installer (.msi) file is created by the sequencer and is used to install the virtual package of Confirm Client on target computers.
Report.xml file	In this file, the sequencer saves all issues, warn- ings, and errors that are discovered during sequen- cing of Confirm Client application to create a virtual package. It displays the information after the package has been created. This report can be used for diagnosing and troubleshooting.
.appv file	This is the virtual application file of Confirm Client application.
Deployment configuration file	The deployment configuration file determines how the virtual Confirm Client application will be deployed to target computers.
User configuration file	The user configuration file determines how the vir- tual Confirm Client application will run on target computers.

#### **App-V Package Deployment**

#### App-V Client

The Microsoft Application Virtualization (App-V) client is the component that runs a virtualized application on a target computer. The client enables users to interact with icons and to double-click file types, so that they can start a virtualized application.

#### **Prerequisites for App-V Client**

Follow the link for information.

#### http://technet.microsoft.com/en-us/library/jj713458.aspx

#### Install Microsoft App-V Client

Follow the link for information

#### http://technet.microsoft.com/en-us/library/jj713460.aspx

**Uninstall Microsoft App-V Client** 

Follow the link for information

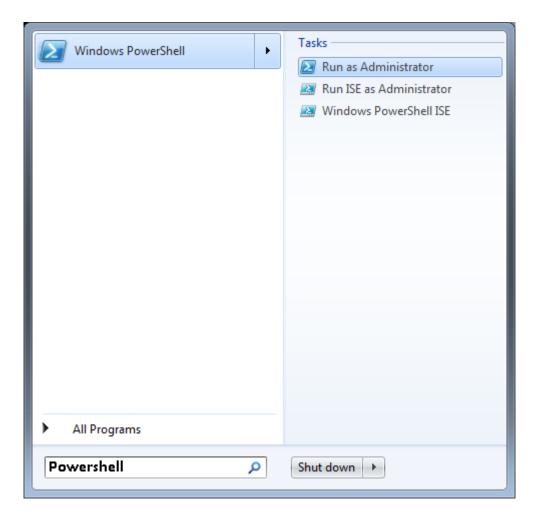
http://technet.microsoft.com/en-us/library/jj684291.aspx

#### Package Deployment Walkthrough

This section outlines the deployment of virtual package (Confirm Client) using Windows PowerShell 3.0.

#### **PowerShell Console**

To open a PowerShell console, click Start and type PowerShell. Run Windows PowerShell as Administrator.



#### **Changing the Windows PowerShell Script Execution Policy**

Execute the command to allow all Windows PowerShell scripts to run.

Command: Set-ExecutionPolicy Unrestricted

#### Install App-V Client Cmdlets

Execute the command to install App-V cmdlets.

Command: Import-Module AppvClient

#### Add the package to App-V Client

Execute the command to add Confirm Client application package to Microsoft App-V Client.

Command: : Add-AppvClientPackage -Path '{full path of Confirm Client virtual package}'

Administrator: Windows P	owerShell	
PS C:∖Windows∖syster	32> Add-AppvClientPackage -Path '\\noicon1\LogFiles\Sanjeev\Confirm\Confirm.appv'	
Packageld Versionld Name Version Path IsPublishedToUser UserPending IsPublishedGlobally GlobalPending InUse InUseByCurrentUser PackageSize PercentLoaded IsLoading HasAssetIntelligence	: e2e97d36-126d-4bca-8068-502d3c629d96 : 77069259-895e-4d43-8c5a-1c26a7b3d77b : Confirm : 0.0.0.1 : \noicon1\LogFiles\Sanjeev\Confirm\Confirm.appv : False : False : False : False : False : False : False : S33210986 : 0 : False : False	

#### Publish the package

Execute the command to publish a package to the current user.

Command: Publish-AppvClientPackage -Name " {name of Confirm Client virtual package}" -Global

🛃 Administrator: Windows P	overShell	- • •
		^
PS C:∖Windows∖system	32> Publish-AppvClientPackage -Name "Confirm"	
PackageId VersionId	: e2e97d36-126d-4bca-8868-502d3c629d96 : 77069259-895e-4d43-8c5a-1c26a7b3d77b	
Versionia Name Version	: //05/25/=3/56=4043=8C5a=1C2ba/D30//D : Confirm : 0.0.0.1	
Path IsPublishedToUser	: \\noicon1\LogFiles\Sanjeeu\Confirm\Confirm.appu : True	
UserPending IsPublishedGlobally GlobalPending	: False False	
Inuse	False : False	
InUseByCurrentUser PackageSize	: False : 583210986	
PercentLoaded IsLoading	: 0 : False	
HasAssetIntelligence	: : True	
		-

#### Remove the package

Execute the command to remove the already published package when needed.

Command: Remove-AppvClientPackage -Name "{name of Confirm Client virtual package}"I

#### FAQ

1. What is the need for virtualization?

It provides the agility, scalability, cost-saving required in today's business scenarios. It reduces

- Infrastructure downtime.
- Saves time and resources that are spend deploying/providing operating systems to users.
- Saves troubleshooting time for application installations.
- Multiple version of the same application can be deployed on one machine.
- 2. Can I do sequencing on a physical machine?

Yes, sequencing can be done on a physical machine. But, this is recommended to sequence using a virtual machine. This is due to starting over to correct a mistake. Thus, the sequencing workstation needs to return to a clean configuration several times. Using a virtual machine is strongly advised to allow the use of snapshots and/or undo disks. After sequencing a virtual application package, the machine can be reverted to a clean state.

3. I am getting error when launching .Net screens of the Confirm client?

You need to check whether both 32 bit and 64 bit of the Microsoft Visual C++ Redistributable is installed on the machine. If yes, ideally you should remove the 32 bit Microsoft Visual C++ Redistributable from the machine to fix the issue.

4. How to get list of all packages which are present on a machine?

The command "Get-AppvClientPackage –All" lists all the packages which are present on a machine.

5. How to remove a package which is present on a machine?

The command "**Remove-AppvClientPackage**" removes a package from a machine. "**Remove-AppvClientPackage**" supports the following inputs for the package.

- Name
- PackageID
- Version
- VersionID
- 6. Why do we need to run "Set-ExecutionPolicy"?

The "**Set-ExecutionPolicy**" cmdlet enables you to determine which Windows PowerShell scripts (if any) will be allowed to run on your computer. Windows PowerShell has four different execution policies:

- Restricted No scripts can be run. Windows PowerShell can be used only in interactive mode.
- AllSigned Only scripts signed by a trusted publisher can be run.
- RemoteSigned Downloaded scripts must be signed by a trusted publisher before they can be run
- Unrestricted No restrictions; all Windows PowerShell scripts can be run.